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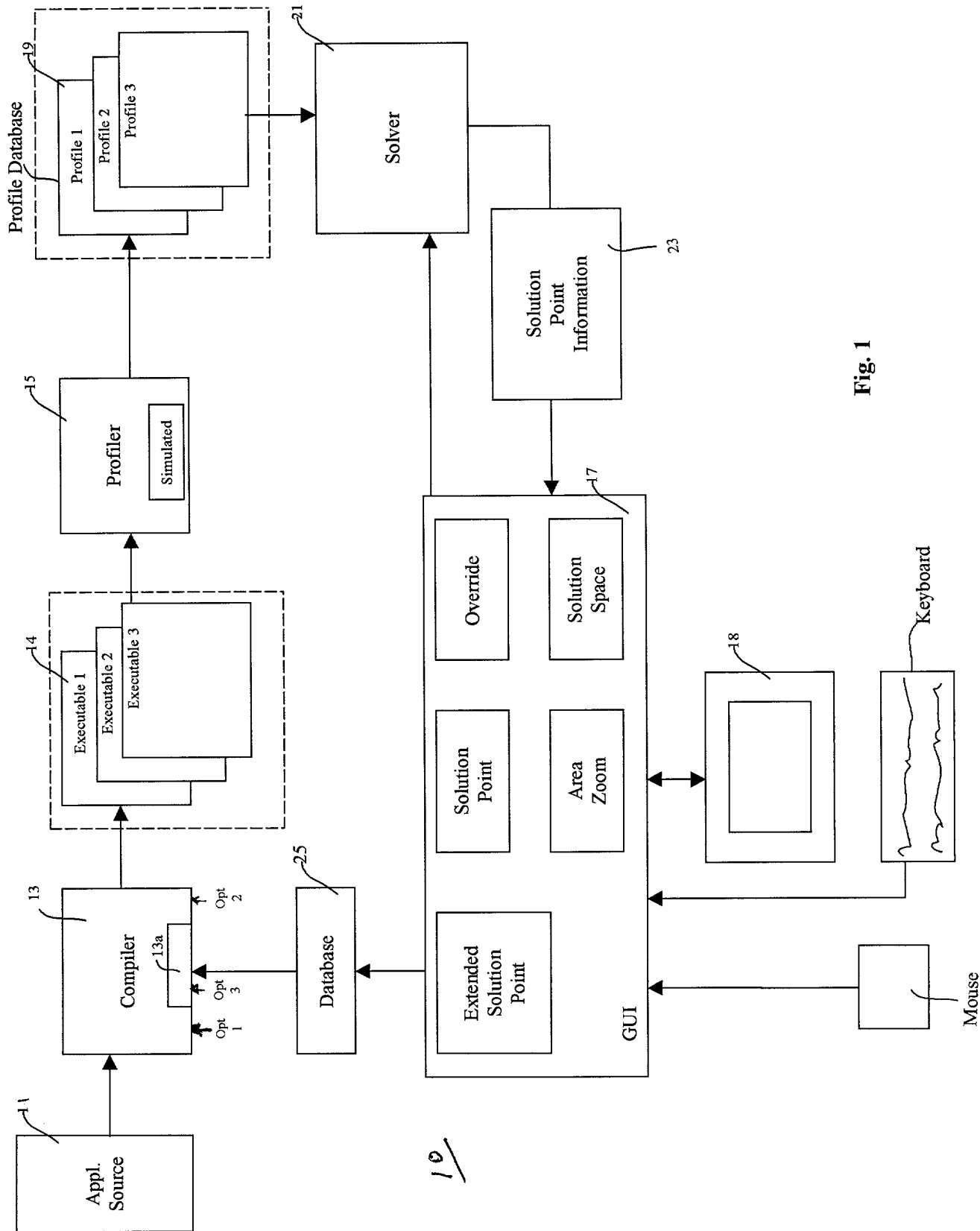


Fig. 1

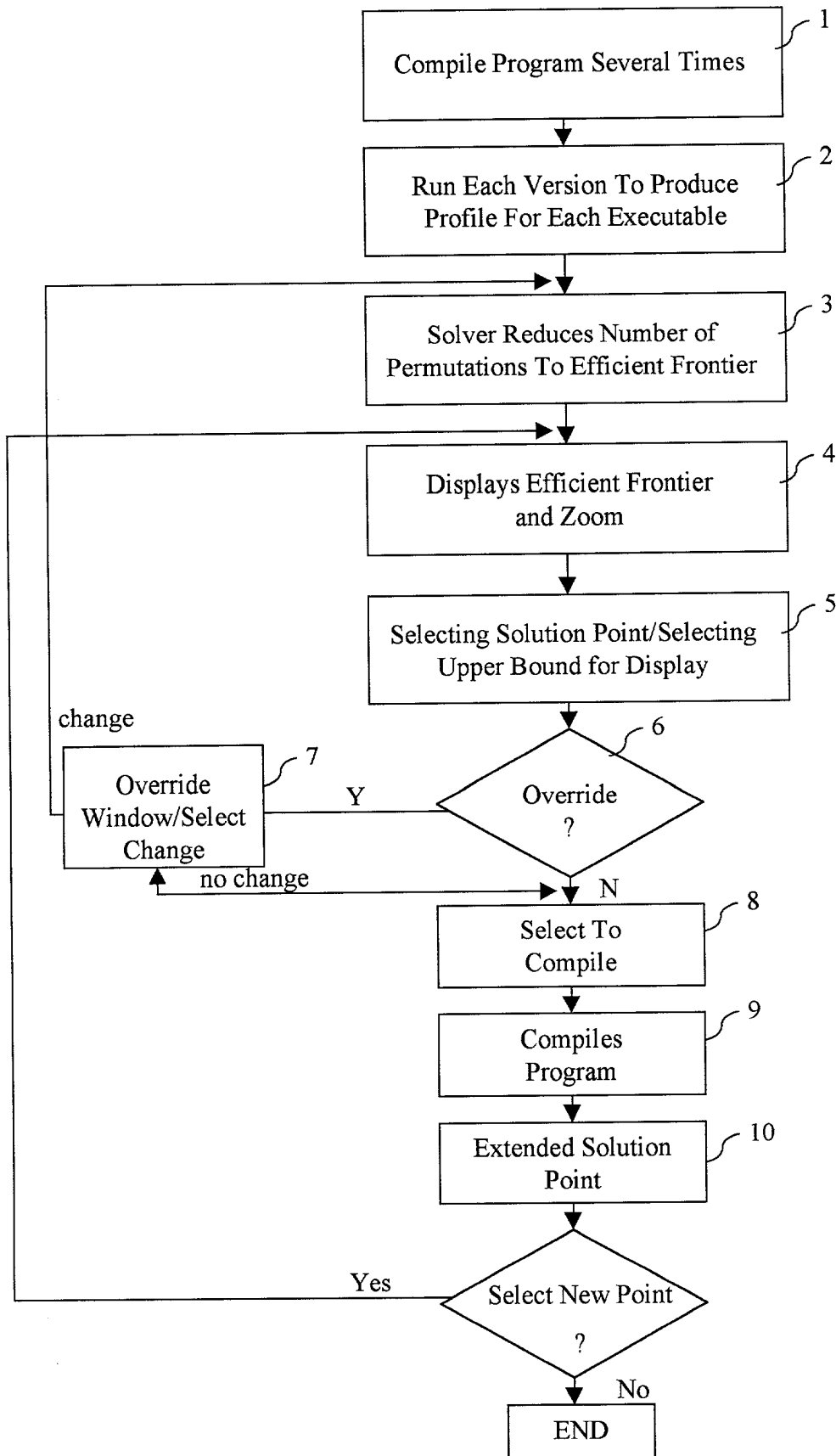


Fig. 2

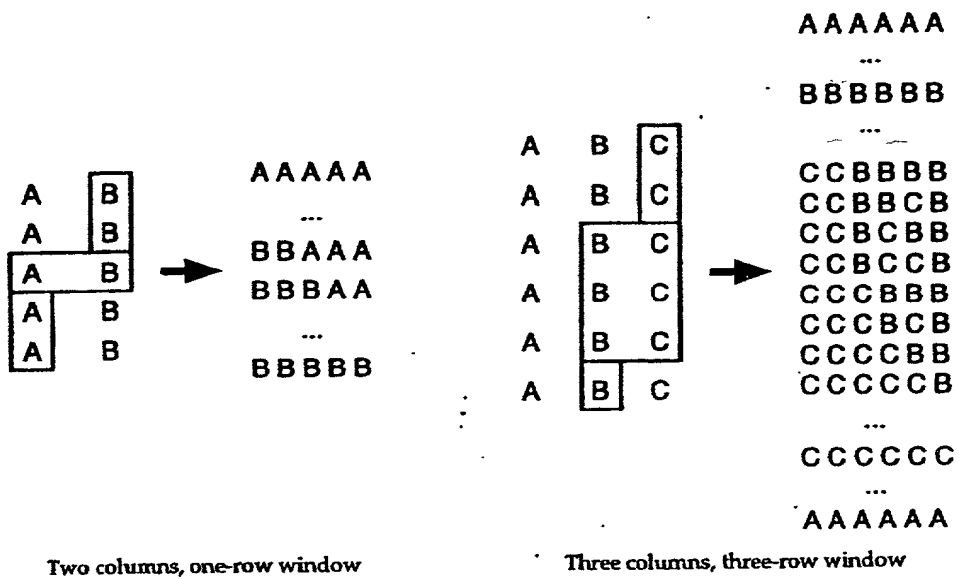


Figure 3: "Linear" Solution Generation

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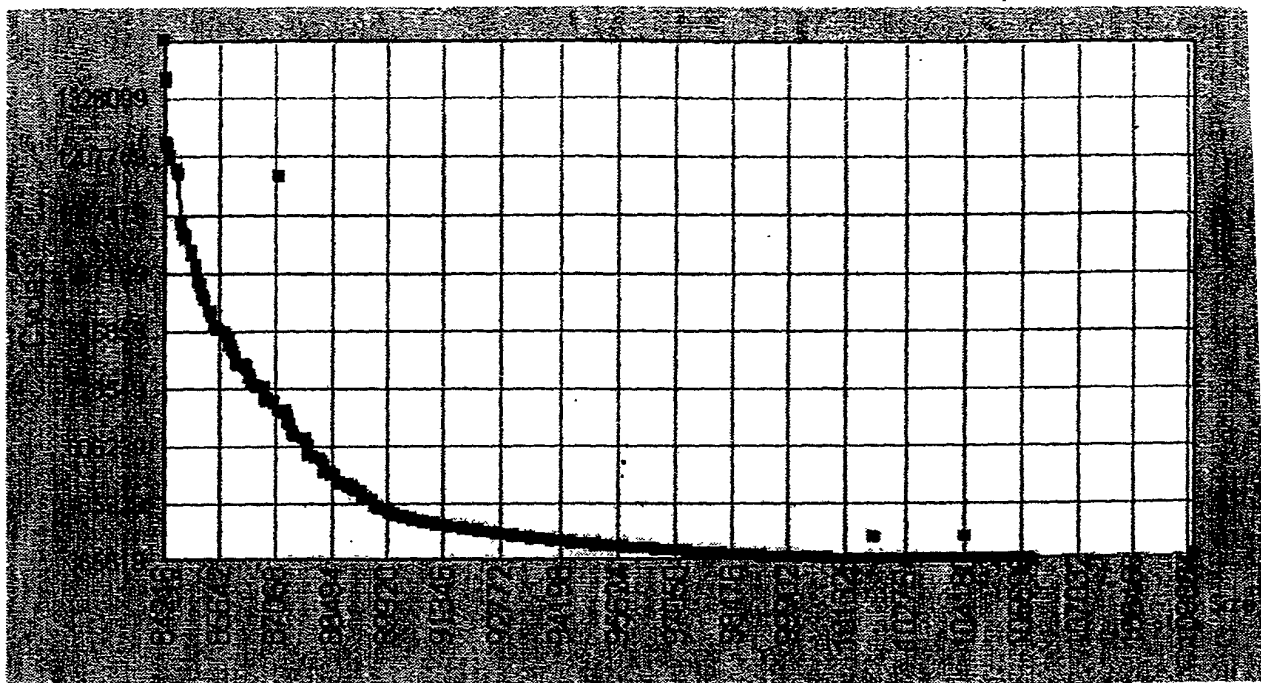


Figure 5

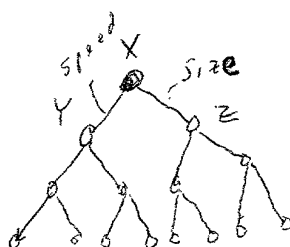
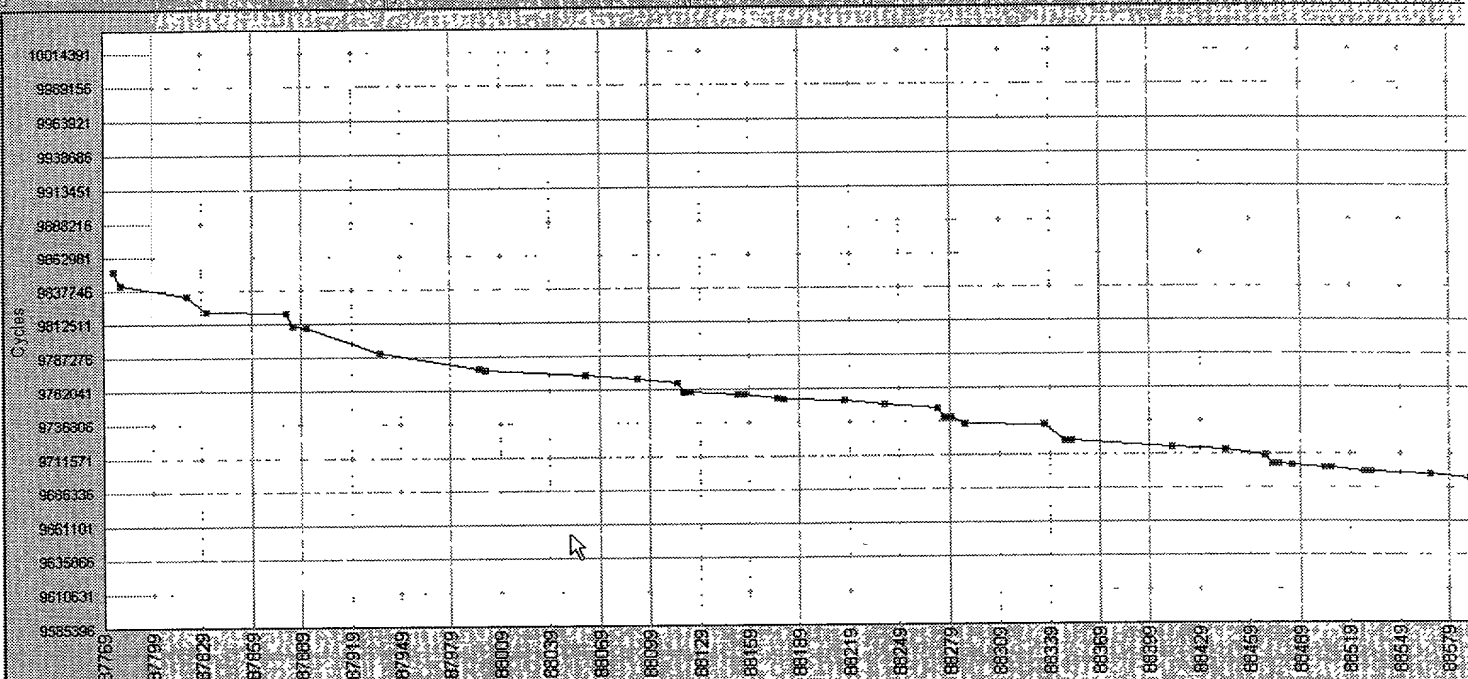


Fig 4

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solving...
overlays applied to solution space
solver run complete

Solver Maximum Speed Speed Minimum Size

1 Start 2 Options 3 Profile 4 Select Solution 5 Verify 6 Export

Once profiling is complete, PBC will present a graph that plots the best ways to compile your application.

To narrow down on a particular speed/size region, a zoom facility is provided:

- Zoom
Use the left mouse button to select a point on the graph. You can investigate in more detail how your application would be built to achieve this speed/size point.
- View Current Solution
While doing this, you may also notice that some functions were not accurately represented within your profile session (e.g. interrupt handlers). As an advanced step, you can override how those functions are to be built.

Size 88120 Cycles 9760824

OVR Read

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Fig-6

Function	Cycles	Size	OptionSet	Options
decoder_homing_fra...	26	80	Size	-o3 -o10 -ms2
rx_dtx	99	900	Minimum Size	-o3 -o10 -ms3
D_pls1_5	641	1716	Minimum Size	-o3 -o10 -ms3
D_pls1_5	744	1448	Minimum Size	-o3 -o10 -ms3
decoder_reset	296	368	Minimum Size	-o3 -o10 -ms3
Int_lpc2	296	224	Minimum Size	-o3 -o10 -ms3
Lst_wt	770	236	Minimum Size	-o3 -o10 -ms3
main	2919	1680	Minimum Size	-o3 -o10 -ms3
reset_rx_dtx	274	172	Minimum Size	-o3 -o10 -ms3
reset_tx_dtx	315	184	Minimum Size	-o3 -o10 -ms3
Enc_lag6	242	344	Minimum Size	-o3 -o10 -ms3
vad_reset	506	184	Size	-o3 -o10 -ms2
Int_hn	516	272	Minimum Size	-o3 -o10 -ms3

Figure 7

Overrides

Function	OptionSet/Rule	OptionSet	Cycles	Size	Options
Init_Pre_Process	None				
set_sign	None				
search_10140	None				
q_p	None		67480	6364	.o3 .o10
cor_h_x	None		67864	6316	.o3 .o10 .ms0
cor_h	None		66380	6492	.o3 .o10 .ms1
build_code	None		217240	5048	.o3 .o10 .ms2
code_10140_35bits	None		292348	5056	.o3 .o10 .ms3
Coder_12k2	None				
Vq_subvec_s	None				
Vq_subvec	None				
lsl_wl	None				
q_rst_5	None				

☒ Rule
☐ Smallest ☐ Fastest ☐ None

☐ OptionSet
☒ Maximum Speed
☐ Aggressive Speed
☐ Speed
☐ Size
☐ Minimum Size

Figure 8

Estimated:		Actual:	
Cycles:	414834	Cycles:	414834
Size:	53024	Size:	53068
Unprofiled Cycles:	80458	Unprofiled Cycles:	80532
Unprofiled Size:	36388	Unprofiled Size:	36436
Total Cycles:	495292	Total Cycles:	495365
Total Size:	89412	Total Size:	89504

Function	Estimated C	Estimated Size	OptionSet	Profiled Cycles	Profiled Size	Delta Cycle	Delta Size
search_10i40	66380	6492	Speed	66380	6516	0	-24
syn_filt	32928	744	Maximum Spe...	32928	744	0	0
Vq_subvec	25520	320	Minimum Size	25520	320	0	0
Lag_max	22404	708	Maximum Spe...	22404	708	0	0
Vq_subvec_s	19769	616	Minimum Size	19769	616	0	0
Norm_Corr	16466	1280	Maximum Spe...	16466	1280	0	0
Coder_12k2	16030	3520	Minimum Size	16030	3520	0	0

Figure 9